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DEMONSTRATIONS

personalizing the music similarity metric to individual users. When multiple contributions for the same song are available, we have the opportunity to vet contributions by comparing similarity between them. Tunebot is currently visited by an average of 200 unique visitors per day. To date, the searchable song database contains over 10,000 sung contributions comprising 3,000 unique songs. This demonstration allows participants to try the Tunebot search engine and the KaraokeCallout on-line Karaoke game.

Presenter: Naphtali David Rishe, Florida International University

Title: TerraFly

Author(s): Naphtali David Rishe, Florida International University

TerraFly users visualize aerial imagery, precise street name overlays, and various other overlays. Users virtually "fly" over imagery via a web browser, without any software to install or plug in. Tools include user-friendly geospatial querying, data drill-down, interfaces with real-time data suppliers, demographic analysis, annotation, route dissemination via autopilots, customizable applications, production of aerial atlases, application programming interface (API) for web sites. The TerraFly project has been featured on TV news programs (including FOX TV News), world-wide press, covered by the New York Times, USA Today, NPR, and Science and Nature journals. The 40TB TerraFly data collection includes, among others, 1-meter aerial photography of almost the entire United States and 3-inch to 1-foot full-color recent imagery of major urban areas. TerraFly vector collection includes 400 million geolocated objects, 50 billion data fields, 40 million polylines, 120 million polygons, including: all US and Canada roads, the US Census demographic and socioeconomic datasets, 110 million parcels with property lines and ownership data, 15 million records of businesses with company stats and management roles and contacts, 2 million physicians with expertise detail, various public place databases (including the USGS GNIS and NGA GNS), Wikipedia, extensive global environmental data (including daily feeds from NASA and NOAA satellites and the USGS water gauges), and hundreds of other datasets.